I claim:

- 1. A method of determining a rotor angle in a drive control for a motor, comprising the steps of:
 - a) estimating the rotor angle; and
- b) correcting the estimated rotor angle on the basis of reactive power input to the motor.
- 2. The method of claim 1, wherein step (a) further comprises the step of (a1) estimating the rotor angle during motor start-up according to a predetermined motor load model in conjunction with a start-up sequencer.
- 3. The method of claim 2, wherein said load model is representative of motor acceleration torque.
- 4. The method of claim 3, wherein said model is responsive to load torque current feedback (iq).
- 5. The method of claim 3, wherein said load model is representative of friction torque.
- 6. The method of claim 5, wherein said model is responsive to motor frequency (We).
- 7. The method of claim 2, wherein said step (a1) terminates at an adjustable percentage of rated motor frequency.
- 8. The method of claim 7, wherein said adjustable percentage is about 10 percent.

- 9. The method of claim 2, wherein said step (a1) is carried out in open-loop mode and terminates at a transition from open-loop mode to closed-loop mode.
- 10. A method of determining a rotor angle in a drive control for a motor, comprising the steps of:
 - a) determining a rotor magnetic flux in the motor; and
- b) estimating the rotor angle during motor start-up according to a predetermined motor load model in conjunction with a start-up sequencer;

wherein step (a) includes the step of non-ideal integration of stator voltage and current values.

- 11. The method of claim 10, wherein said load model is representative of motor acceleration torque.
- 12. The method of claim 11, wherein said model is responsive to load torque current feedback (iq).
- 13. The method of claim 11, wherein said load model is representative of friction torque.
- 14. The method of claim 13, wherein said model is responsive to motor frequency (We).
- 15. The method of claim 10, wherein said step (b) terminates at an adjustable percentage of rated motor frequency.
- 16. The method of claim 15, wherein said step (b) terminates at about 10% of rated motor frequency.

- 17. The method of claim 10, wherein said step (b) is carried out in open-loop mode and terminates at a transition from open-loop mode to closed-loop mode.
- 18. The method of claim 10, wherein step (a) further includes the step of correcting phase errors caused by said non-ideal integration via a PLL circuit with phase compensation (F).
- 19. A system for determining a rotor angle in a drive control for a motor, comprising:
 - a first circuit for estimating a rotor angle; and
- a second circuit for correcting the estimated rotor angle on the basis of reactive power input to the motor.
- 20. The system of claim 19, wherein said first circuit estimates the rotor angle during motor start-up according to a predetermined motor load model in conjunction with a start-up sequencer.
- 21. The system of claim 20, wherein said load model is representative of motor acceleration torque.
- 22. The system of claim 21, wherein said model is responsive to load torque current feedback (iq).
- 23. The system of claim 21, wherein said load model is representative of friction torque.
- 24. The system of claim 23, wherein said model is responsive to motor frequency (We).

- 25. The system of claim 20, wherein said estimating step terminates at an adjustable percentage of rated motor frequency.
- 26. The system of claim 25, wherein said estimating step terminates at about 10% of rated motor frequency.
- 27. The system of claim 20, wherein said estimating step is carried out in open-loop mode and terminates at a transition from open-loop mode to closed-loop mode.
- 28. A system for determining a rotor angle in a drive control for a motor, comprising:
- a) a first circuit for determining a rotor magnetic flux in the motor; and
- b) a second circuit for estimating the rotor angle during motor start-up according to a predetermined motor load model in conjunction with a start-up sequencer;

wherein said first circuit carries out non-ideal integration of stator voltage and current values.

- 29. The system of claim 28, wherein said load model is representative of motor acceleration torque.
- 30. The system of claim 29, wherein said model is responsive to load torque current feedback (iq).
- 31. The system of claim 29, wherein said load model is representative of friction torque.

- 32. The system of claim 31, wherein said model is responsive to motor frequency (We).
- 33. The system of claim 28, wherein said estimating step terminates at an adjustable percentage of rated motor frequency.
- 34. The system of claim 33, wherein said estimating step terminates at about 10% of rated motor frequency.
- 35. The system of claim 28, wherein said estimating step is carried out in open-loop mode and terminates at a transition from open-loop mode to closed-loop mode.
- 36. The system of claim 28, wherein said second circuit corrects phase errors caused by said non-ideal integration via a PLL circuit with phase compensation (F).